

JC491 U.S. PTO



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201-395100

A

Practitioner's Docket No. MORLT-001A

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of
Inventor(s): Oscar Louis Morlett

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (title): FACE SHIELD/FAN

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is **mandatory**.)

(Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date December 2, 1997 in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EM170735576US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Josephine I. Weissberger

(type or print name of person mailing paper)



Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

1. Type of Application

This new application is for a(n)

(check one applicable item below)

☒ Original (nonprovisional)

☐ Design

☐ Plant

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: Do not use this transmittal for the filing of a provisional application.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

☐ Divisional.

☐ Continuation.

☐ Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

☐ The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed That Are Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

11 Pages of specification

4 Pages of claims

1 Pages of Abstract

2 Sheets of drawing

☐ formal

☒ informal

(Application Transmittal [4-1]—page 2 of 9)

WARNING: *DO NOT* submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page." 37 C.F.R. 1.84(c)).

(complete the following, if applicable)

- ☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

4. Additional papers enclosed

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement (37 C.F.R. 1.98)
- ☐ Form PTO-1449 (PTO/SB/08A and 08B)
- ☐ Citations
- ☐ Declaration of Biological Deposit
- ☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
- ☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- ☐ Special Comments
- ☐ Other

5. Declaration or oath

☒ Enclosed

Executed by

(check all applicable boxes)

- ☒ inventor(s).
- ☐ legal representative of inventor(s).
37 CFR 1.42 or 1.43.
- ☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
- ☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.

☐ Not Enclosed.

WARNING: Where the filing is a completion in the U.S. of an International Application, but where a declaration is not available, or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

- ☐ Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of all the above named inventor(s).

(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).

NOTE: It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).

- ☐ Showing that the filing is authorized.
(not required unless called into question. 37 CFR 1.41(d))

6. Inventorship Statement

WARNING: *If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.*

The inventorship for all the claims in this application are:

- ☒ The same.

or

- ☐ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
☐ is submitted.
☐ will be submitted.

7. Language

NOTE: *An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).*

NOTE: *A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).*

- ☒ English
☐ Non-English
☐ The attached translation is a verified translation. 37 C.F.R. 1.52(d).

8. Assignment

- ☐ An assignment of the invention to _____

☐ is attached. A separate ☒ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☒ FORM PTO 1595 is also attached.
☐ will follow.

NOTE: *"If an assignment is submitted with a new application, send two separate letters—one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).*

WARNING: *A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.*

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9. Certified Copy

Certified copy(ies) of application(s)

Country	Appln. no.	Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

☐ is (are) attached.☐ will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. 1.16)A. ☒ Regular application

CLAIMS AS FILED			
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$790.00
Total Claims (37 CFR 1.16(c)) 20- 20 =	0	×	\$ 22.00
Independent Claims (37 CFR 1.16(b)) 3 - 3 =	0	×	\$ 82.00
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+	\$270.00

- ☐ Amendment cancelling extra claims is enclosed.
- ☐ Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 CFR 1.16(d).

Filing Fee Calculation

\$ 790.00

- B. ☐ Design application
(\$330.00—37 CFR 1.16(f))

Filing Fee Calculation

\$ _____

- C. ☐ Plant application
(\$540.00—37 CFR 1.16(g))

Filing fee calculation

\$ _____

11. Small Entity Statement(s)

- ☐ Verified Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.

WARNING: "Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121 or 365(c) of a prior application may rely on a verified statement filed in the prior application if the nonprovisional application includes a reference to a verified statement in the prior application or includes a copy of the verified statement filed in the prior application if status as a small entity is still proper and desired." 37 C.F.R. § 1.28(a).

(complete the following, if applicable)

- ☐ Status as a small entity was claimed in prior application
_____ / _____, filed on _____, from which benefit
is being claimed for this application under:

35 U.S.C. ☐ 119(e),
☐ 120,
☐ 121,
☐ 365(c),

and which status as a small entity is still proper and desired.

- ☐ A copy of the verified statement in the prior application is included.

Filing Fee Calculation (50% of A, B or C above)

\$ 395.00

NOTE: Any excess of the full fee paid will be refunded if a verified statement and a refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 CFR 1.28(a).

12. Request for International-Type Search (37 C.F.R. 1.104(d))

(complete, if applicable)

- ☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

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13. Fee Payment Being Made at This Time☐ Not Enclosed☐ No filing fee is to be paid at this time.*(This and the surcharge required by 37 C.F.R. 1.16(e) can be paid subsequently.)*☒ Enclosed☒ Basic filing fee\$ 395.00☐ Recording assignment

(\$40.00; 37 C.F.R. 1.21(h))

(See attached "COVER SHEET FOR
ASSIGNMENT ACCOMPANYING NEW
APPLICATION".)

\$ _____

☐ Petition fee for filing by other than all the
inventors or person on behalf of the inventor
where inventor refused to sign or cannot be
reached

(\$130.00; 37 C.F.R. 1.47 and 1.17(h))

\$ _____

☐ For processing an application with a
specification in

a non-English language

(\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))

\$ _____

☐ Processing and retention fee

(\$130.00; 37 C.F.R. 1.53(d) and 1.21(l))

\$ _____

☐ Fee for international-type search report

(\$40.00; 37 C.F.R. 1.21(e))

\$ _____

NOTE: 37 CFR 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 CFR 1.53(d) and this, as well as the changes to 37 CFR 1.53 and 1.78, indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(d).

Total fees enclosed

\$ 395.00**14. Method of Payment of Fees**☒ Check in the amount of \$ 395.00

for application filing fee.

☐ Check in the amount of \$40.00 for assignment filing fee.☐ Charge Account No. _____ in the amount of
\$ _____

A duplicate of this transmittal is attached.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).

15. Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

☒ The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 19-4330:

☒ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)

☒ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

☐ 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

☐ 37 C.F.R. 1.17 (application processing fees)

WARNING: While 37 CFR 1.17(a), (b), (c) and (d) deal with extensions of time under § 1.136(a), this authorization should be made only with the knowledge that: "Submission of the appropriate extension fee under 37 C.F.R. 1.136(a) is to no avail unless a request or petition for extension is filed." (Emphasis added). Notice of November 5, 1985 (1060 O.G. 27).

☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).

NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . issue fee." From the wording of 37 CFR 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.


16. Instructions as to Overpayment

☒ Credit Account No. 19-4330

☐ Refund

Date: 12/2/97

Reg. No. 29,445


SIGNATURE OF PRACTITIONER

Kit M. Stetina

(type or print name of attorney)

Tel. No. (714) 855-1246

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24221 Calle de la Louisa, 4th Flr.

P.O. Address Laguna Hills, CA 92653-7602

Customer No. 007663

(Application Transmittal [4-1]—page 8 of 9)

☐ **Incorporation by reference of added pages**

(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)

- ☐ Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed

Number of pages added _____

- ☐ Plus Added Pages for Papers Referred to in Item 4 Above

Number of pages added _____

- ☐ Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added _____

☐ **Statement Where No Further Pages Added**

(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)

- ☒ This transmittal ends with this page.

"Express Mail" mailing label number EM170735576US
Date of Deposit December 2, 1997
I hereby certify that this paper or fee is being deposited
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Office to Addressee" service under 37 CFR 1.10 on the date
indicated above and is addressed to Box Patent Application,
Assistant Commissioner for Patents, Washington, D.C. 20231.
Josephine I. Weissberger
-1- (Typed or printed name of person mailing paper or fee)
(Signature of person mailing paper or fee)

Case: MORLT-001A

Pat. Appln.

5 Express Mail:

FACE SHIELD/FAN

10

Field of the Invention

The present invention relates generally to protective
face shields, and more particularly to a face shield which
protects the user's face against spray and against spillage
15 occurring at the user's forehead and which may be utilized
as a fan for dissipating odors and heat and for
facilitating drying.

Background of the Invention

20 There are a variety of face shields for protecting a
user's face from undesirable contact with fluid sprays and
spillage at the user's forehead. These shields have
particular application in the hair styling/cosmetology and
medical industries.

25 For example, in the hair styling industry hair spray
is commonly used. And in the medical industry context,
hair growth medication may be sprayed onto the scalp.
Unless the face is protected from such sprays, inhalation
of the spray, eye and skin irritation, and interference
30 with the application of facial make-up may result.

In addition, face shields are used to protect the
user's face from the fluid spillage at the user's forehead.
For example, such spillage may simply be water applied to
the hair or scalp. There are a variety of procedures which
35 require saturating, irrigating and otherwise applying
various fluids and solutions to the hair. Such procedures
may include, but are not limited to, shampooing and hair

styling procedures such as perms, dyeing, tinting, frosting, highlighting, hair curling and hair straightening. Face shields have particular application during these procedures where facial contact is to be avoided with spillage of the various fluids and solutions. In addition, such shields protect the user from fumes associated with chemicals in the various fluids and solutions.

In addition, face shields may have application during simple hair cutting procedures. During hair cutting, hair cuttings typically fall onto the face and a face shield would prevent such undesirable contact.

Various face shields have been developed in the art. For example in U.S. Patent No. 4,856,535 to Forbes, there is provided a face shield which is provided with an adhesive strip at the uppermost portion of the shield for affixing the shield to the face. While such an arrangement may be effective in protecting the face against fluid sprays, there are several problems associated with such a design. The shield is not readily removable and reattachable to and from the user's face. Typically, a user would not desire to use a face shield when not required for protection. Such removability/reattachability features of a face shield are especially desirable where the shield is intermittently required. In addition, there are problems with the nature of the adhesive seal. As the adhesive seal is increasingly exposed to fluids, the adhesive characteristic decreases which leads to leakage and attachment problems.

Other designs have been developed to affix the face shield to the user's face. For example, referring to U.S. Patent No. 5,088,114 to Salce et al., there is provided a face shield which is provided with either arm members which clamp around the user's head or a strap to hold the device in contact with the user's head. Such clamping arm members

and head straps tend to make the face shield not readily removable. In addition, clamping arm members and head straps may interfere with the particular procedure which the user is under going. For example, it would be
5 difficult to shampoo a user's hair with a head strap in place.

Other prior art face shields have avoided the above methods of affixing the shields to the user's face by provided the face shield with a handle for manually holding
10 the device adjacent to the user's face and for removing the face shield when facial protection is not needed. For examples, see Patent No. 3,772,707 to Alosi et al. and German Patent No. 3,500,198 to Esse. A problem with these and other prior art face shields, however, is that they may
15 not be equipped with a seal at the forehead (e.g., Patent No. 3,772,707 to Alosi et al.). Even where a forehead seal may be included (e.g., the rubberized edge contemplated in German Patent No. 3,500,198 to Esse), another problem encountered by prior art designs is that when fluids are
20 encountered at the forehead the fluid may run down the front of the shield. This is especially problematic where the fluid is a dye and may result in obstructing viewing through the shield. In addition, when fluids run down the front of the shield, the fluids would continue to run down
25 the handle and onto the user's hand and arm. This is especially undesirable where the fluids are dyes or other chemicals. No attempt has been made to direct the fluids away from the face, toward the sides.

Accordingly, there is a need in the art for a device
30 which is readily removed from the user's face, protects the user's face against spray and against spillage occurring at the user's forehead, and directs spillage occurring at the user's forehead away from the face.

/ / /

35 / / /

Summary of the Invention

In accordance with the present invention, there is provided a face shield/fan for protecting a user's face against spray and against spillage occurring at the user's forehead, for dissipating odors and heat and for facilitating drying, the face shield/fan is provided with a mask. The mask is generally formed to receive a user's face and is provided with an upper portion and a lower portion. The upper portion is generally formed to correspond to the user's forehead. The face shield/fan is further provided with a sealing member which is attachable to the upper portion of the mask. The sealing member is generally formed to conform to the contours of the user's forehead for sealing therewith, for directing spillage occurring at the user's forehead away from the user's face. The face shield/fan is further provided with a handle. The handle is disposable adjacent to the lower portion of the mask and is used for manually supporting the face shield/fan against the user's forehead and for facilitating waving of the face shield/fan to dissipate odors and heat and facilitate drying.

In addition, the sealing member is provided with a channel. The channel is generally formed to span the width of the user's forehead and formed to face outward from the user's face, for directing spillage away from the user's face. In the preferred embodiment of the present invention, the channel is further formed to extend generally downward adjacent to the user's eyes, for directing spillage away from the user's face and eyes. The channel may also be formed to extend generally downward below the user's eyes, for increased protection of the face and eyes.

In the preferred embodiment of the present invention, the upper portion of the mask is provided with an upper edge and the sealing member is provided with a groove which

is formed to receive the upper edge, for attaching the sealing member to the mask. The sealing member may comprise a generally flexible polymer material. Preferably, the sealing member comprises a rubber material.

5 The mask may comprise a semi-rigid polymer material. Preferably, the mask comprises a thermoplastic material. In addition, the mask is formed of a transparent material for allowing the user to see therethrough and may contain indicia thereon and/or therein. The mask may be formed to

10 generally resemble a particular set of ethnic facial features. The mask and the handle are formed of a continuous material.

The mask is preferably provided with a pair of opposed side edges and the face shield/fan is further provided with

15 a pair of edge guards. The edge guards are formed to respectively receive the side edges and are formed of a generally flexible material, for protecting the user's face from the side edges of the mask.

In addition, there is provided a method of forming the

20 above described face shield/fan of the present invention.

The face shield/fan of the present invention addresses the various problems associated with the prior art designs by providing a handle for manually holding the face shield/fan to the user's face and a sealing member for

25 directing spillage occurring at the user's forehead away from the user's face.

The present invention mitigates that problems associated with designed which include an adhesive strip, arm members which clamp around the user's head or a head

30 strap. As such, the face shield/fan is readily removable. In addition, the present invention does not substantially interfere with the particular procedure which the user is undergoing because clamping arm members, head straps or similar apparatus are not employed.

Advantageously, the present invention is equipped with a sealing member which directs fluids away from the face.

This is especially the case where the sealing member is provided with a facially outward facing channel. Fluids from the user's forehead region which come into contact with the face shield/fan are directed away from the face, toward the sides of the face. As such, the problems associated with fluids running down the front of the shield are mitigated.

10 An additional attribute of the present invention is that it may be utilized as a fan, as facilitated by the handle and the general shape of the mask. Thus, the face shield/fan may be used for dissipating undesirable, fumes, odors and heat away from the face. In addition the face shield/fan may facilitate drying where drying is desirable at the face, forehead, scalp, hair, etc. Thus, the present invention serves a dual purpose which further enhances its novelty.

20 Accordingly, the face shield/fan of the present invention represents a substantial advance in the art.

Brief Description of the Drawings

These, as well as other features of the present invention, will become more apparent upon reference to the drawings wherein:

Figure 1 is a perspective view of the face shield/fan constructed in accordance with the present invention as shown being held adjacent a user's face;

30 Figure 2 is another perspective view of the face shield/fan of the present invention;

Figure 3 is top view of the sealing member;

Figure 4 is a cross-sectional view of the sealing member shown in Figures 1 and 3, as seen along axis 4-4, as shown adjacent a user's forehead; and

Figure 5 is a cross-sectional view of an edge guard and a portion of the mask as shown in Figure 5, as seen along axis 5-5.

5 Detailed Description of the Preferred Embodiment

Referring now to the drawing wherein the showings are for purposes of illustrating of a preferred embodiment of the present invention only, and not for purposes of limiting the same, Figures 1-5 illustrate a face shield/fan
10 constructed in accordance with the present invention. As will be described in more detail below, the face shield/fan protects the user's face against spray and against spillage occurring at the user's forehead and may be utilized as a fan for dissipating odors and heat and for
15 facilitating drying.

Referring now to Figures 1-5, in accordance with the present invention, there is provided a face shield/fan 10 for protecting a user's face 12 against spray and against spillage occurring at the user's forehead 14, for
20 dissipating odors and heat and for facilitating drying, the face shield/fan 10 is provided with a mask 16. The mask 16 is generally formed to receive a user's face 12 and is provided with an upper portion 18 and a lower portion 20. The upper portion 18 is generally formed to correspond to
25 the user's forehead 14. The face shield/fan 10 is further provided with a sealing member 22 which is attachable to the upper portion 18 of the mask 16. The sealing member 22 is generally formed to conform to the contours of the user's forehead 14 for sealing therewith, for directing
30 spillage occurring at the user's forehead 14 away from the user's face 12. Thus, it is contemplated that the sealing member 22 seals against the user's forehead 14 to protect against fluid spillage occurring there at from running down onto the user's face 12. In addition, because of the
35 configuration of the sealing member 22 fluid spillage is

directed away from and toward to sides of the user's face 12. The face shield/fan 10 is further provided with a handle 24. The handle 24 is disposable adjacent to the lower portion 20 of the mask 16 and is used for manually supporting the face shield/fan 10 against the user's forehead 14 and for facilitating waving of the face shield/fan 10 to dissipate odors and heat and facilitate drying.

In addition, the sealing member 22 is provided with a channel 26. The channel 26 is generally formed to span the width of the user's forehead 14 and formed to face outward from the user's face 12, for directing spillage away from the user's face 12. It is contemplated that as fluid spillage occurring at the user's forehead 14 is encountered with the channel 26 of the sealing member 22, the spillage is directed laterally and away from the user's face 12. In the preferred embodiment of the present invention, the channel 26 is further formed to extend generally downward adjacent to the user's eyes 28, for directing spillage away from the user's face 12 and eyes 28, as best shown in Figures 2, 3 and 4. The channel 26 may also be formed to extend generally downward below the user's eyes 28, for increased protection of the face 12 and eyes 28. It is contemplated that the channel 26 facilitates the directing of any spillage occurring at the user's forehead 14 away from the user's face 12.

Referring now to Figures 1 and 4, face shield/fan 10 is depicted as being generally vertically aligned with respect to the user's face 12. It is contemplated, however, that the face shield/fan 10 may be aligned at an angle with respect to the user's face 12 by moving the handle 24 forward while maintaining the sealing member 22 in contact with user's forehead 14. Such an alignment may facilitate, for example, facial ventilation and/or verbal

communication, while substantially maintaining protection the user's face 12.

In the preferred embodiment of the present invention, the upper portion 18 of the mask 16 is provided with an upper edge 30 and the sealing member 22 is provided with a groove 32 which is formed to receive the upper edge 30, for attaching the sealing member 22 to the mask 16. The groove is best seen in the cross-sectional view of the sealing member 22 in Figure 4.

The sealing member 22 may comprise a generally flexible polymer material. Preferably, the sealing member 22 comprises a rubber material. It is contemplated that the sealing member 22 have the characteristic of being water-resistant which would result in a design which avoids that sealing member 22 from becoming saturated with fluids. The mask 16 may comprise a semi-rigid polymer material. Preferably, the mask 16 comprises a thermoplastic material.

In addition, the mask 16 is formed of a transparent material for allowing the user to see therethrough. It is contemplated that only the portions of the mask 16 which correspond to the user's eyes may be transparent and may comprise a different material type than the rest of the mask 16. For example, the eye portions of the mask 16 may comprise a set of optical lenses integral to the mask 16. Furthermore, the mask 16 may contain indicia thereon and/or therein. For example, referring to Figure 1, indicia 34 resembles a rose. It is contemplated that the mask 16 may be formed from a sheet of material which may be vacuumed formed and subsequently die-cut. The sheet of material may contain distorted indicia such that the indicia upon being vacuumed formed is stretched into proper proportion. Further, the material itself comprising the mask 16 may be colored and tinted and may contain metallic flakes. It is contemplated that the material may be laminar with various layers containing indicia and/or coloring. The mask 16 may

be formed to generally resemble a particular set of ethnic facial features. Although not shown, it is contemplated that such sets of ethnic facial features may for example correspond to Caucasian, Asian, African facial features.

5 Thus, the mask 16 is contemplated to be formed to include contours corresponding to the general shape of a user's eyes, nose, mouth and lips, chin, etc.

Preferably, the mask 16 and the handle 24 are formed of a continuous material. This is especially advantageous
10 from a manufacturing view point where the mask 16 and handle 24 are vacuum formed from a single sheet of thermoplastic material. It is contemplated, however, that the mask 16 and the handle 24 may be separate members.

Preferably, the sealing member 22 is formed of a
15 generally water-resistant material such as rubber. Such a water-resistant material would not only facilitate sealing, but would be comfortable to the user as it would be in direct contact with the user's forehead 14. Being water-resistant, it is contemplated that the sealing member 22
20 would not become saturated with fluids which may be encountered.

The mask 16 is preferably provided with a pair of opposed side edges 36 and the face shield/fan 10 is further provided with a pair of edge guards 38, as best seen in
25 Figures 1, 2 and 5. The edge guards 38 are formed to respectively receive the side edges 36 and are formed of a generally flexible material, for protecting the user's face 12 from the side edges 36 of the mask 16. It is contemplated that the edge guards 38 may extend downward
30 onto the handle 24. In addition, it is contemplated that the edge guards 38, although shown as two separate members in Figures 1, 2, and 5, may comprise a single continuous member which extends from one side of the side edges 36 down to the handle 24 and up to the other one of the side
35 edges 36.

In addition, there is provided a method of forming the above described face shield/fan 10 of the present invention. It is contemplated that the various component part of the face shield/fan 10 of the present invention may
5 comprise a thermal plastic material which is vacuum formed and die-cut.

Additional modification and improvements of the present invention may also be apparent to those of ordinary skill in the art. Thus, the particular combination of
10 parts described and illustrated herein is intended to represent only one embodiment of the present invention, and is not intended to serve as limitation of alternative devices within the spirit and scope of the invention.

WHAT IS CLAIMED IS:

1. A face shield/fan for protecting a user's face against spray and against spillage occurring at the user's forehead, for dissipating odors and heat and for facilitating drying, the face shield/fan comprising:
 - a mask, generally formed to receive a user's face, comprising an upper portion and a lower portion, the upper portion generally formed to correspond to the user's forehead;
 - a sealing member, attachable to the upper portion of the mask, generally formed to conform to the contours of the user's forehead for sealing therewith, for directing spillage occurring at the user's forehead away from the user's face; and
 - a handle, disposable adjacent the lower portion of the mask, for manually supporting the face shield/fan against the user's forehead and for facilitating waving of the face shield/fan to dissipate odors and heat and facilitate drying.
2. The face shield/fan of Claim 1 wherein the sealing member comprising a channel, generally formed to span the width of the user's forehead and formed to face outward from the user's face, for directing spillage away from the user's face.
3. The face shield/fan of Claim 2 wherein the channel further formed to extend generally downward adjacent to the user's eyes, for directing spillage away from the user's face and eyes.
4. The face shield/fan of Claim 2 wherein the channel further formed to extend generally downward below the user's eyes, for directing spillage away from the user's face and eyes.
5. The face shield/fan of Claim 1 wherein the upper portion of the mask having an upper edge and the sealing

member comprising a groove formed to receive the upper edge, for attaching the sealing member to the mask.

5 6. The face shield/fan of Claim 1 wherein the sealing member comprising a generally flexible polymer material.

7. The face shield/fan of Claim 1 wherein the sealing member comprising a rubber material.

8. The face shield/fan of Claim 1 wherein the mask comprising a semi-rigid polymer material.

10 9. The face shield/fan of Claim 1 wherein the mask comprising a thermoplastic material.

10. The face shield/fan of Claim 1 wherein the mask comprising a transparent material for allowing the user to see therethrough.

15 11. The face shield/fan of Claim 1 wherein the mask containing indicia thereon.

12. The face shield/fan of Claim 1 wherein the mask containing visible indicia therein.

20 13. The face shield/fan of Claim 1 wherein the mask being formed to generally resemble a particular set of ethnic facial features.

14. The face shield/fan of Claim 1 wherein the mask and the handle being formed of a continuous material.

25 15. The face shield/fan of Claim 1 where in the mask further comprising a pair of opposed side edges and the face shield/fan further comprising a pair of edge guards formed to respectively receive the side edges, formed of a generally flexible material, for protecting the user's face from the side edges of the mask.

30 16. A face shield/fan for protecting a user's face against spray and against spillage occurring at the user's forehead, for dissipating odors and heat and for facilitating drying, the face shield/fan comprising:

35 a mask, generally formed to receive a user's face, comprising an upper portion and a lower portion,

the upper portion generally formed to correspond to the user's forehead;

a sealing member, attachable to the upper portion of the mask, comprising:

5 a sealing portion generally formed to conform to the contours of the user's forehead for sealing therewith; and

10 a channel, generally formed to span the width of the user's forehead and formed to face outward from the user's face, for directing spillage away from the user's face; and

15 a handle, disposable adjacent the lower portion of the mask, for manually supporting the face shield/fan against the user's forehead and for facilitating waving of the face shield/fan to dissipate odors and heat and facilitate drying.

20 17. The face shield/fan of Claim 16 wherein the channel further formed to extend generally downward to a position which is below the user's eyes, for directing spillage away from the user's face and eyes.

18. The face shield/fan of Claim 16 wherein the channel further formed to extend generally downward below the user's eyes, for directing spillage away from the user's face and eyes.

25 19. A method of formed a face shield/fan for protecting a user's face against spray and against spillage occurring at the user's forehead, for dissipating odors and heat and for facilitating drying, the method comprising the steps of:

30 (a) forming a mask to receive a user's face, the mask comprising an upper portion and a lower portion, the upper portion generally formed to correspond to the user's forehead;

35 (b) forming a sealing member to generally conform to the contours of the user's forehead for

sealing therewith and attachable to the upper portion of the mask, for directing spillage occurring at the user's forehead away from the user's face; and

5 (c) forming a handle, disposable adjacent the lower portion of the mask, for manually supporting the face shield/fan against the user's forehead and for facilitating waving of the face shield/fan to dissipate odors and heat and facilitate drying.

10 20. The method of Claim 19 wherein step (b) the sealing member comprising a channel, generally formed to span the width of the user's forehead and formed to face outward from the user's face, for directing spillage away from the user's face.

15

Abstract

In accordance with the present invention, there is provided a face shield/fan for protecting a user's face against spray and against spillage occurring at the user's forehead, for dissipating odors and heat and for facilitating drying, the face shield/fan is provided with a mask. The mask is generally formed to receive a user's face and is provided with an upper portion and a lower portion. The upper portion is generally formed to correspond to the user's forehead. The face shield/fan is further provided with a sealing member which is attachable to the upper portion of the mask. The sealing member is generally formed to conform to the contours of the user's forehead for sealing therewith, for directing spillage occurring at the user's forehead away from the user's face. The face shield/fan is further provided with a handle. The handle is disposable adjacent to the lower portion of the mask and is used for manually supporting the face shield/fan against the user's forehead and for facilitating waving of the face shield/fan to dissipate odors and heat and facilitate drying.

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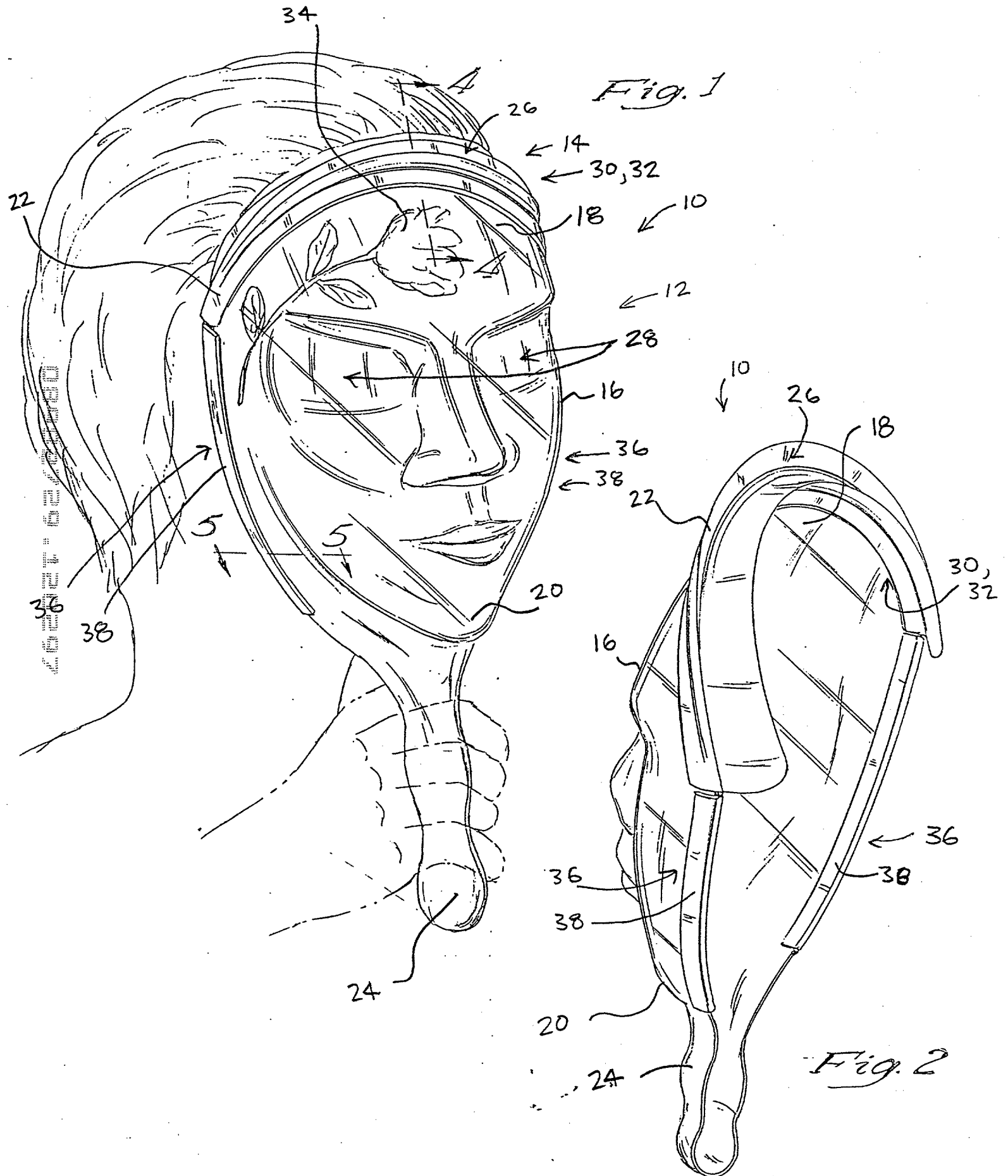


Fig. 3

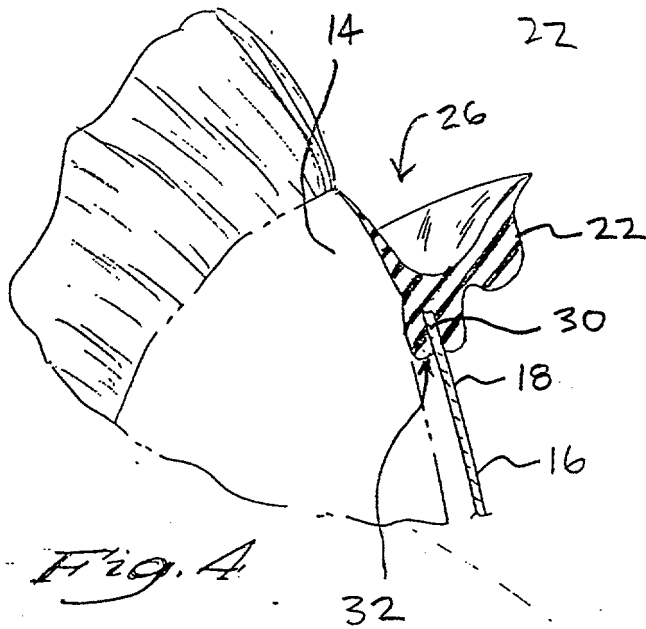
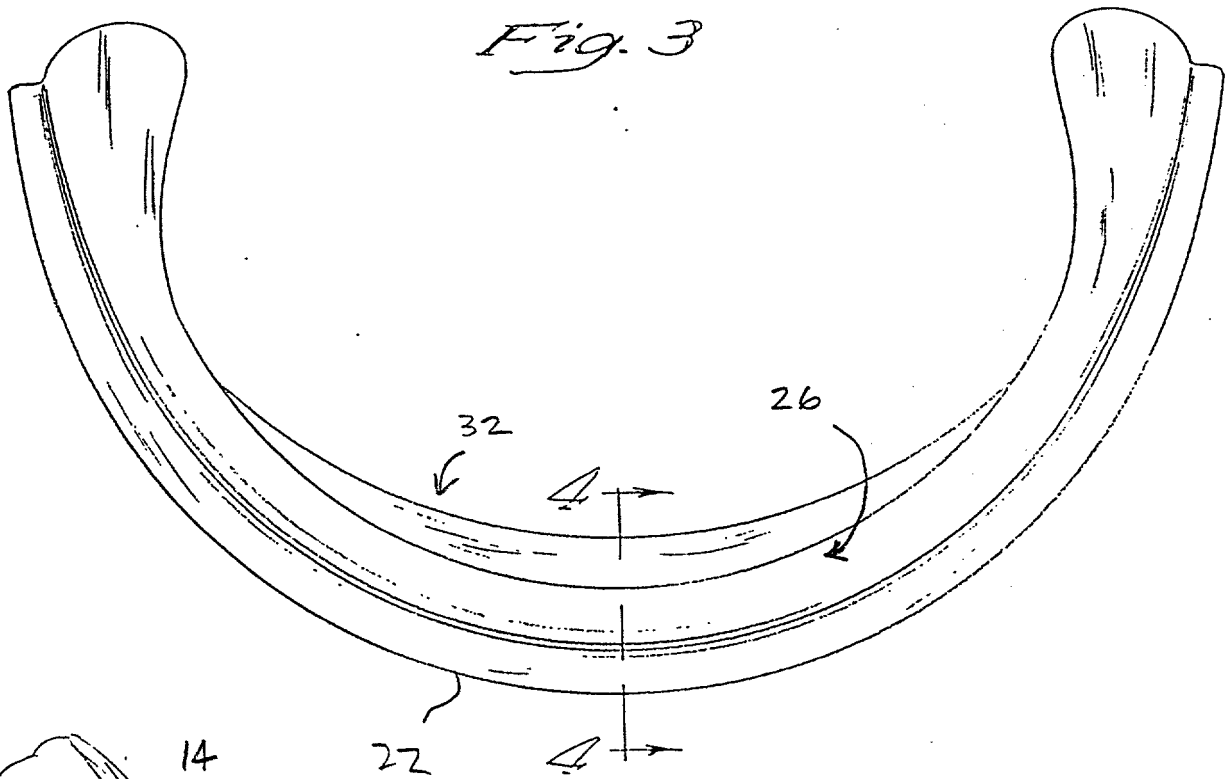
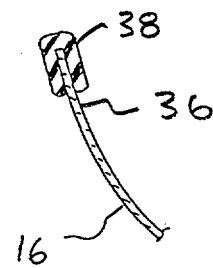


Fig. 5



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Practitioner's Docket No. MORLT-001A**PATENT****COMBINED DECLARATION AND POWER OF ATTORNEY**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☒ original.
☐ design.
☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- ☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- ☐ divisional.
☐ continuation.
☐ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTIONFACE SHIELD/FAN

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☒ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☐ was filed on _____, as ☐ Serial No. 0 / _____
or ☐ _____
and was amended on _____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g., 08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐ was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ (if any).

(Declaration and Power of Attorney [1-1]—page 2 of 7)

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- ☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☒ no such applications have been filed.
- (e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

____ / _____
____ / _____
____ / _____

**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S)
UNDER 35 U.S.C. 120**

- ☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]—page 4 of 7)

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Kit M. Stetina, Reg. No. 29,445; Bruce B. Brunda, Reg. No. 28,497;
Mark B. Garred, Reg. No. 34,823; William J. Brucker, Reg. No. 35,462;
Norman E. Carte, Reg. No. 30,455; Matthew A. Newboles, Reg. No. 36,224;
Thomas C. Naber, Reg. No. 26,777; Eric L. Tanezaki, Reg. No. 40,196

(check the following item, if applicable)

- ☒ I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- ☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:
(Name and telephone number)

☒ Address

Atty: Kit M. Stetina
STETINA BRUNDA GARRED & BRUCKER
24221 Calle de la Louisa, 4th Flr.
Laguna Hills, CA 92653-7602

Atty: Kit M. Stetina
(714) 855-1246

☒ Customer Number 007663

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Oscar

Louis

Morlett

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

(FAMILY (OR LAST NAME))

Inventor's signature

Date

11-30-97

Country of Citizenship

United States

Residence

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Post Office Address

22951 Lynda Lane, Lake Forest, California 92630

Full name of second joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date

Country of Citizenship

Residence

Post Office Address

Full name of third joint inventor, if any

(GIVEN NAME)

(MIDDLE INITIAL OR NAME)

FAMILY (OR LAST NAME)

Inventor's signature

Date

Country of Citizenship

Residence

Post Office Address

(Declaration and Power of Attorney [1-1]—page 6 of 7)

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

- ☐ **Signature** for fourth and subsequent joint inventors. *Number of pages added* _____

* * *

- ☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____

* * *

- ☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____

* * *

- ☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

- ☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

☐ Number of pages added _____

* * *

- ☐ Authorization of practitioner(s) to accept and follow instructions from representative.

* * *

(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)

- ☒ This declaration ends with this page.

Practitioner's Docket No. MORLT-001A**PATENT**

☒ Applicant O. Morlett ☐ Patentee _____
☒ Application No. Unknown ☐ Patent No. _____
☒ Filed on Herewith ☐ Issued on _____
Title: FACE SHIELD/FAN

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b))—INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor, as defined in 37 CFR 1.9(c), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office, with regard to the invention described in

- ☒ the specification filed herewith, with title as listed above.
☐ the application identified above.
☐ the patent identified above.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person had made the invention, or to any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ No such person, concern, or organization exists.
☐ Each such person, concern or organization is listed below. *

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

FULL NAME _____

ADDRESS _____

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Inventor

Name of Inventor _____
Signature of Inventor Oswe L. Morlan

Date 11-30-97

~~Name of inventor~~

Signature of Inventor

Date _____

Name of inventor

Signature of Inventor

Date _____

(Rel.71-6/97 Pub.605)